



Q96480 sequence listing submitted 11.2006.txt  
SEQUENCE LISTING

<110> SUCAMPO AG  
<120> METHOD FOR DIAGNOSING OR PREDICTING SUSCEPTIBILITY TO OPTIC  
NEUROPATHY

<130> 665045

<140> PCT/JP2005/005601

<141> 2005-03-18

<150> US 60/553986

<151> 2004-03-18

<150> US 60/604704

<151> 2004-08-27

<150> US 60/607359

<151> 2004-09-07

<160> 209

<170> PatentIn version 3.2

<210> 1

<211> 360

<212> DNA

<213> Homo Sapiens

<400> 1

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cgcctaaccg ctaacattac tgcaggccac ctactcatgc acctaattgg aagcgccacc	180
ctagcaatat caaccattaa ccttccctct acacttatca tcttcacaat tctaattcta	240
ctgactatcc tagaaatcgc tgtcgcctta atccaagcct acgttttcac acttctagta	300
agcctctacc tgcacgacaa cacataatga cccaccaatc acatgcctat catatagtaa	360

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<211> 300

<212> DNA

<213> Homo Sapiens

<400> 2

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tggagctggc taccacggac agttcccgtg ttcttggggg ggctacacgg acattgactt	180
ggctgtggat gaagcaggcc tctgggtcat ttacagcacc gatgaggcca aagggtgccat	240
tgtcctctcc aaactgaacc cagagaatct ggaactcgaa caaacctggg agacaaacat	300

<210> 3

<211> 540

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<212> DNA

<213> Homo Sapiens

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gtctgggtca aaggccaggg gtcaggcttg gccatgggtc catcttgatg cacaggagct	180
gaaggacagg atgacggaac tgttgcccct gagctcggtc ctggagcagt acaaggcaga	240
cacgcggacc attgtacgct tgcgggagga ggtgaggaat ctctccggca gtctggcggc	300
cattcaggag gagatgggtg cctacgggta tgaggacctg cagcaacggg tgatggccct	360
ggaggcccgg ctccacgcct gcgcccagaa gctgggtatg ccttggccct tgaccctgac	420
ccctgatctc tgactgccac acccaactcc agtatcacct gtttgtgcct agaagctgga	480
cacagttttg acctctaact tttaaacttc aacccttgac cttcctacct aaggctacac	540

<210> 4

<211> 23

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer/Probe

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<211> 23

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<213> Artificial Sequence

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<211> 22

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer/Probe

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<211> 25

<212> DNA

<213> Artificial Sequence

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<220>

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<211> 600

<212> DNA

<213> Homo Sapiens

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ctttcaaggt ggaaacgtca gatgaggaga tccacgactt acaccagagg atcgataagt	180
tccgttttcac cccacctttg gaggacagct gcttccacta tggcttcaac tccaactacc	240
tgaagaaagt catctcttac tggcggaatg aatttgactg gaagaagcag gtggagattc	300
tcaacagata ccctcacttc aagactaaaa ttgaagggct ggacatccac ttcattccacg	360
tgaagcccc ccagctgccc gcaggccata ccccgagcc cttgctgatg gtgaacggct	420
ggccccggctc tttctacgag ttttataaga tcatccccact cctgactgac cccaagaacc	480
atggcctgag cgatgagcac gtttttgaag tcattctgccc ttccatccct ggctatggct	540
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<210> 9

<211> 780

<212> DNA

<213> Homo Sapiens

<400> 9

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aaggacaagg gttgggctgg ggacctggag ggctggggac ctggagggct ggggggctgg	180
ggggctgagg acctggctct ctgactgctc ttttcacca tctacagtcc cccttgccgt	240
cccaagcaat ggatgatttg atgctgtccc cggacgatat tgaacaatgg ttcactgaag	300
accaggtcc agatgaagct ccagaaatgc cagaggctgc tccccgctg gccctgcac	360
cagcagctcc tacaccggcg gccctgcac cagccccctc ctggccccctg tcattctctg	420
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Q96480 sequence listing submitted 11.2006.txt  
 ctctgtccc aaagttgaat attccccct tgaatttggg cttttatcca tcccatcaca 720  
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<210> 10  
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<220>  
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<400> 10  
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<210> 11  
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<220>  
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<400> 11  
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<210> 12  
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 <212> DNA  
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<220>  
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<400> 12  
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<210> 13  
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<220>  
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<400> 13  
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<210> 14  
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 <212> DNA  
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<220>  
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<400> 14  
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<210> 15  
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<210> 22  
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<210> 23  
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<210> 24  
 <211> 56  
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<210> 25  
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<220>  
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<210> 26  
 <211> 18  
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<220>  
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 <400> 26  
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<210> 27  
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<220>  
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<210> 28  
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<210> 29  
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<210> 30  
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<210> 31  
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<400> 31  
aagtaggaga gtgatatttg 20

<210> 32  
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<220>  
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<400> 32  
gctttgtttc tgttgagtgt 20

<210> 33  
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<220>  
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<400> 33  
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<210> 34  
<211> 20  
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<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 34  
gtcattatgt gttgtcgtgc 20

<210> 35  
<211> 20  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 35  
cacatccgta ttactcgcat 20



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<210> 36  
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 <212> DNA  
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<400> 36  
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<210> 37  
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 cgcctaaccg ctaacattac tgcaggccac ctactcatgc acctaattgg aagcgccacc 180  
 ctagcaatat caaccattaa ccttcctctt acacttatca tcttcacaat tctaattcta 240  
 ctgactatcc tagaaatcgc tgtcgcctta atccaagcct acgttttcac acttctagta 300  
 agcctctacc tgcacgacaa cacataatga cccaccaatc acatgcctat catatagtaa 360

<210> 38  
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 <212> DNA  
 <213> Homo Sapiens

<400> 38  
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 tagaaaacaa ccgaaaccaa ataattcaag cactgcttat tacaatttta ctgggtctct 180  
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 tctacggctc aacatttttt gttagccacag gcttccacgg acttcacgtc attattggct 300  
 caactttcct cactatctgc ttcacccgcc aactaatatt tcactttaca tccaaacatc 360  
 actttggctt cgaagccgcc gcctgatact ggcattttgt agatgtgggt tgactatttc 420

<210> 39  
 <211> 420  
 <212> DNA  
 <213> Homo Sapiens

<400> 39  
 agccctcgta gtaacagcca ttctcatcca aacccccctga agcttcaccg gcgcagtcac 60  
 tctcataatc gccacggggc ttacatcctc attactattc tgcctagcaa actcaaacta 120

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cgaacgcact cacagtcgca tcataatcct ctctcaagga cttcaaactc tactcccact	180
aatagctttt tgatgacttc tagcaagcct cgctaacctc gccttacccc ccactattaa	240
cctactggga gaactctctg tgctagtaac cacgttctcc tgatcaaata tcactctcct	300
acttacagga ctcaacatac tagtcacagc cctatactcc ctctacatat ttaccacaac	360
acaatggggc tcactcacc accacattaa caacataaaa ccctcattca cacgagaaaa	420

<210> 40  
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<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 40	
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<210> 41  
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<400> 41	
tcgccaaaca tggccacaca t	21

<210> 42  
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<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 42	
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<210> 43  
 <211> 24  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 43	
ggatggctct ccccgcttg tctc	24

<210> 44  
 <211> 24  
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 44  
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<210> 45  
 <211> 24  
 <212> DNA  
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<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 45  
 tcgccagccc tcccatgccc ataa 24

<210> 46  
 <211> 24  
 <212> DNA  
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<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 46  
 gaggttgagt gacatgttcg aaac 24

<210> 47  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 47  
 cgtcatctgt ctaatgcaaa atgt 24

<210> 48  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 48  
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<210> 49  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer/Probe

<400> 49  
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<210> 50  
<211> 24  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 50  
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<210> 51  
<211> 20  
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<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 51  
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<210> 52  
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<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 52  
ggattcagat ttctctttga a 21

<210> 53  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 53  
gcataggagt atgatttaat c 21

<210> 54  
<211> 27  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 54

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<210> 55  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 55  
ctcaccagg aacctgctct ggaaacata 29

<210> 56  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 56  
ggaaatgtga gcagatagtg cagtc 25

<210> 57  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 57  
aatccggagc tggagaactc ttgtc 25

<210> 58  
<211> 360  
<212> DNA  
<213> Homo Sapiens

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taatctaadc ttgctttctg gcatcaacct cacttgacca tgggtgtatag tccctttcat 120  
atgttattgg attcaatttg cctacatttt gttgagaatt tttatctata ctcttaagaa 180  
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<210> 59  
<211> 323  
<212> DNA  
<213> Homo Sapiens

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<400> 59  
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tatcaggatt tcctcttgaa ccagaaccag tctttcaact cattgcatca ttacaagac 120  
aacattgtaa gagagatgag cacttctaag ttgagtatat tataatagat tagtactgga 180  
ttattcaggc tttaggcata tgcttcttta aaaacgctat aaattatatt cctcttgcat 240  
ttcacttgag tggagggttta tagttaatct ataactacat attgaatagg gctaggaata 300  
tagattaaat catactccta tgc 323

<210> 60  
<211> 420  
<212> DNA  
<213> Homo Sapiens

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gttgagtata ttataataga ttagtactgg attattcagg ctttaggcat atgcttcttt 180  
aaaaacgcta taaattatat tcctcttgca tttcacttga gtggagggttt atagttaatc 240  
tataactaca tattgaatag ggctaggaat atagattaaa tcatactcct atgcttttagc 300  
ttatTTTTac agttatagaa agcaagatgt actataacat agaattgcaa tctataatat 360  
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<210> 61  
<211> 17  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 61  
cttgcctttc agcttgg 17

<210> 62  
<211> 17  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 62  
attgcctttc agcttgg 17

<210> 63  
<211> 31  
<212> DNA  
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<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 63

gttgtgggtc acataacgct ctctggaggg t 31

<210> 64

<211> 360

<212> DNA

<213> Homo Sapiens

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ttgaggtttt atcaaagagt tgcggcgggt ggtgaaagt cacaaccaga ttcaggtttt 60

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acatttggtt tctcttatct tgctttatta ggtcggagac catgagaaac agcgtcaaata 180

catcttttca tgatcccaag ctgaaaggca agccctccag agagcggtat gtgaccacaca 240

accgagcaca ttgggtgacag accttcgggg cctgtctgaa gccatagcct ccacggagag 300

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<210> 65

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 65

agcacagcag agctttccag agga 24

<210> 66

<211> 19

<212> DNA

<213> Artificial Sequence

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<400> 66

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<210> 67

<211> 20

<212> DNA

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<223> Description of Artificial Sequence: Primer/Probe

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<210> 69  
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<210> 70  
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<210> 71  
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 <223> Description of Artificial Sequence: Primer/Probe  
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 cctcaacata gtcaatcctt gggc 24

<210> 72  
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 <223> Description of Artificial Sequence: Primer/Probe  
 <400> 72  
 acatgaataa agaccatgtg ggca 24

<210> 73  
 <211> 24  
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 73  
gattatggat taagtggatg ttcg 24

<210> 74  
<211> 20  
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<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 74  
tgtctcgga ttcagctcat 20

<210> 75  
<211> 21  
<212> DNA  
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<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 75  
catactgcct aggcactgg a 21

<210> 76  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 76  
attggcgact gactgcttac 20

<210> 77  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 77  
gaatctggaa ctcgaacaaa 20

<210> 78  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 78  
ctgagcatct ccttctgcc a t 21

<210> 79  
<211> 300  
<212> DNA  
<213> Homo Sapiens

<400> 79  
actggaaagc acgggtgctg tgggtgactc ggggagcctc tatttccagg gcgctgagtc 60  
cagaactgtc ataagatatg agctgaatac cgagacagtg aaggctgaga aggaaatccc 120  
tgagctggc taccacggac agttcccgt a ttcttggggg ggctacacgg acattgactt 180  
ggctgtggat gaagcaggcc tctgggtcat ttacagcacc gatgaggcca aagggtccat 240  
tgtcctctcc aaactgaacc cagagaatct ggaactcgaa caaacctggg agacaaacat 300

<210> 80  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 80  
ccagtgggtt tgtgggactc c 21

<210> 81  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 81  
aaagggatgg catttcttgc a 21

<210> 82  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 82  
gtccactttc ctggtgtgtg act 23

<210> 83  
<211> 18  
<212> DNA  
<213> Artificial Sequence

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<220>  
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 caacatcaca atggatcg 18  
 <210> 84  
 <211> 25  
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 <210> 85  
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 <223> Description of Artificial Sequence: Primer/Probe  
 <400> 85  
 gtttcatctt tccaggggag gct 23  
 <210> 86  
 <211> 42  
 <212> DNA  
 <213> Artificial Sequence  
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 <400> 86  
 cgcccgccgc cgcccgccgc aatcccttgc atttctgttt tt 42  
 <210> 87  
 <211> 21  
 <212> DNA  
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 <223> Description of Artificial Sequence: Primer/Probe  
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 <211> 45  
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 <223> Description of Artificial Sequence: Primer/Probe

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<400> 88  
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<210> 89  
<211> 25  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 89  
gggtgaactg tatggtatct taatt 25

<210> 90  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 90  
cgcccgccgc cgcccgccgc gctatttctc ttaaagccaa agaga 45

<210> 91  
<211> 21  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 91  
cagtggctgg actactctcg t 21

<210> 92  
<211> 44  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 92  
cgcccgccgc cgcccgccgc gtcagatgat aattgtacag atat 44

<210> 93  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 93  
aatgtatatt tcaaaggagg ataaa 25

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<210> 94  
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 <223> Description of Artificial Sequence: Primer/Probe  
  
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 <210> 95  
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 <212> DNA  
 <213> Artificial Sequence  
  
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 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 95  
 caaatccgaa ttccaatctg tataa 25  
  
 <210> 96  
 <211> 44  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 96  
 cgccccgccgc cgccccgccgc ggttgggagg caagactata agtt 44  
  
 <210> 97  
 <211> 25  
 <212> DNA  
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 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 97  
 ttctgttcat tactaggcta tggaa 25  
  
 <210> 98  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 98  
 caggcagaat tatttcaaaa ccat 24  
  
 <210> 99

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<211> 21  
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 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 99  
 cgagaataca gtcagggctg g 21  
  
 <210> 100  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 100  
 gcactacctc ctcacgcgc aaaca 25  
  
 <210> 101  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 101  
 ggccatgctg atgtgagctc t 21  
  
 <210> 102  
 <211> 43  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 102  
 cgcccgcgc cgcccgcgc ggactgtctg ctcagtgttg tca 43  
  
 <210> 103  
 <211> 21  
 <212> DNA  
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 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 103  
 ggtgccttga tttggaatcc a 21  
  
 <210> 104  
 <211> 44  
 <212> DNA  
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<220>  
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<400> 104  
 cgcccgccgc cgcccgccgc cacaactgcc tgcaaaatgg aact 44

<210> 105  
 <211> 25  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 105  
 gaggcaaaat atttgagtga aaaca 25

<210> 106  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 106  
 aggcaatagg ttttgagggc cat 23

<210> 107  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 107  
 gtagtgggcc ctgcaccttc t 21

<210> 108  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 108  
 aagtcgagta tggggacccc ccgttaa 27

<210> 109  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

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<400> 109  
ccccagtgtg tggccatatac ttctt 25

<210> 110  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 110  
gctgagaaga tgaaggaaaa gtc 23

<210> 111  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 111  
cctctacatg gccctgtcct 20

<210> 112  
<211> 240  
<212> DNA  
<213> Homo Sapiens

<400> 112  
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tgaaaaggag gacagcccca gtgaaagcac aggaaatgga cccccccacc tggccacccc 120  
aaacctggac acgtttaccc cggaggagct gctgcagcag atgaaagagc tcctgaccga 180  
gaaccaccag ctgaaagggtg agcaggggctg gccctgtgtg gccccattca tcctgggcct 240

<210> 113  
<211> 2077  
<212> DNA  
<213> Homo Sapiens

<400> 113  
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tgagccgtac gcctctgtaa acccaacttc ctcacctttg aaacagctgc ctggttcagc 180  
attaatgaag attagtcagt gacaggcctg gtgtgctgag tccgcacata gaagaatcaa 240  
aatgtccaa aatgtaactg gagagaaaagt gggcaacttt tggagtgaact tttccacagg 300  
aacttctgca atgtcccatc aacctctcag ctgcctcact gaaaaggagg acagccccag 360  
tgaaagcaca ggaaatggac cccccacct ggcccaccca aacctggaca cgtttaccct 420



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ggaggagctg ctgcagcaga tgaaagagct cctgaccgag aaccaccagc tgaaagaagc	480
catgaagcta aataatcaag ccatgaaagg gagatttgag gagctttcgg cctggacaga	540
gaaacagaag gaagaacgcc agttttttga gatacagagc aaagaagcaa aagagcgtct	600
aatggccttg agtcatgaga atgagaaatt gaaggaagag cttggaaaac taaaagggaa	660
atcagaaaagg tcactctgagg accccactga tgactccagg cttcccaggg ccgaagcgga	720
gcaggaaaag gaccagctca ggaccaggt ggtgaggcta caagcagaga aggcagacct	780
gttgggcatc gtgtctgaac tgcagctcaa gctgaactcc agcggctcct cagaagattc	840
ctttgttgaa attaggatgg ctgaaggaga agcagaaggg tcagtaaaag aaatcaagca	900
tagtcctggg cccacgagaa cagtctccac tggcacggca ttgtctaaat ataggagcag	960
atctgcagat ggggccaaga attacttcga acatgaggag ttaactgtga gccagctcct	1020
gctgtgccta aggggaaggg atcagaagggt ggagagactt gaagttgcac tcaaggaggc	1080
caaagaaaaga gtttcagatt ttgaaaagaa aacaagtaat cgttctgaga ttgaaaccca	1140
gacagagggg agcacagaga aagagaatga tgaagagaaa ggcccggaga ctgttggaag	1200
cgaagtggaa gcactgaacc tccaggtgac atctctgttt aaggagcttc aagaggctca	1260
tacaaaactc agcgaagctg agctaattgaa gaagagactt caagaaaagt gtcaggccct	1320
tgaaaggaaa aattctgcaa ttccatcaga gttgaatgaa aagcaagagc ttgtttatac	1380
taacaaaaag ttagagctac aagtggaaaag catgctatca gaaatcaaaa tggaacaggc	1440
taaaacagag gatgaaaagt ccaaattaac tgtgctacag atgacacaca acaagcttct	1500
tcaagaacat aataatgcat tgaaaacaat tgaggaacta acaagaaaag agtcagaaaa	1560
agtggacagg gcagtgctga aggaactgag tgaaaaactg gaactggcag agaaggctct	1620
ggcttccaaa cagctgcaaa tggatgaaat gaagcaaacc attgccaaagc aggaagagga	1680
cctggaaacc atgaccatcc tcagggtcga gatggaagt tactgttctg attttcatgc	1740
tgaaagagca gcgagagaga aaattcatga ggaaaaggag caactggcat tgcagctggc	1800
agttctgctg aaagagaatg atgctttcga agacggaggc aggcagtcct tgatggagat	1860
gcagagtcgt catggggcga gaacaagtga ctctgaccag caggcttacc ttgttcaaag	1920
aggagctgag gacagggact ggcggaaca gcggaatatt ccgattcatt cctgccccaa	1980
gtgtggagag gttctgcctg acatagacac gttacagatt cacgtgatgg attgcatcat	2040
ttaagtgttg atgtatcacc tccccaaaac tgttgggt	2077

<210> 114  
 <211> 240  
 <212> DNA  
 <213> Homo Sapiens

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<400> 114  
ccacatgtag cggctctgag gaatgggtta caggagacct ctggggagat gtgaccacag 60  
caatgggtag gagaatgtcc agggctatga aagtcgagta tggggacccc cccttaacga 120  
agacagggcc atgtagaggg cccagggag tgaaagagcc tccaggacct ccaggtatgg 180  
aatacagggg acgtttaaga agatatggcc acacactggg gccctgagaa gtgagagctt 240

<210> 115  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 115  
ttggtggaga acaaaca 18

<210> 116  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 116  
gtggtggaga acaaaca 17

<210> 117  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 117  
ggtcttactg ggccactgtg agcgctc 27

<210> 118  
<211> 16  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 118  
taacggggag aaaagg 16

<210> 119  
<211> 17  
<212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 119  
 ttaacgggga gaaaagg 17

<210> 120  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 120  
 gcgatccttc agcccaagtg cccttc 26

<210> 121  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 121  
 gaaaatcatt ttgggggagc 19

<210> 122  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 122  
 aaaaatcatt ttgggggagc 19

<210> 123  
 <211> 44  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 123  
 tgcctctctg agtcaatgta ttaccactt tccctgagaa atct 44

<210> 124  
 <211> 17  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Primer/Probe

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<400> 124  
cttgcctttc agcttgg 17

<210> 125  
<211> 17  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 125  
attgcctttc agcttgg 17

<210> 126  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 126  
gttgtgggtc acataacgct ctctggaggg t 31

<210> 127  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 127  
ctcctgggca ctgc 14

<210> 128  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 128  
ttcctgggca ctgc 14

<210> 129  
<211> 29  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 129  
ctgcacagct tccccggctt cagaaaaca 29

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<210> 130  
 <211> 23  
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 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 130  
 tttaagccgt atattgaaga aaa 23  
  
 <210> 131  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 131  
 cttaagccgt atattgaaga aaa 23  
  
 <210> 132  
 <211> 40  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 132  
 cttggttgta atttttgctc tttgctggtt ccctcttcaa 40  
  
 <210> 133  
 <211> 16  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 133  
 gtcacagttg ccttgt 16  
  
 <210> 134  
 <211> 16  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 134  
 ctcacagttg ccttgt 16  
  
 <210> 135  
 <211> 31

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<212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
 <400> 135  
 ggaagaagga tcagagaaga gattcccgga t 31

<210> 136  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
 <400> 136  
 cttggggttt tcagtatga 19

<210> 137  
 <211> 19  
 <212> DNA  
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 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
 <400> 137  
 tttggggttt tcagtatga 19

<210> 138  
 <211> 38  
 <212> DNA  
 <213> Artificial Sequence  
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 <223> Description of Artificial Sequence: Primer/Probe  
 <400> 138  
 cccacaaatg ccaccagaac ttaacgattc ttcactta 38

<210> 139  
 <211> 22  
 <212> DNA  
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 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
 <400> 139  
 attcagtttc tatttctgct tg 22

<210> 140  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

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<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 140

gttcagtttc tatttctgct tg

22

<210> 141

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 141

ctcatcccta tagttttaca agacagcaaa agattggtgg ctt

43

<210> 142

<211> 290

<212> DNA

<213> Homo Sapiens

<400> 142

ttgaattcca ccctccatcc ccagaaaaac tggagtaaaa caaaaagagg agatggacaa 60

agtgtgtatt tgatggcatc ccctgggaag agactctaaa tttatcccat aggtcttact 120

gggccactgt gagcgctttg gtggagaaca aacaaaaatt ctgggtgctc agttgtctaa 180

cctgaaaaat ggactagcg gaaaaagcca atgtgttcca tgcacctttt gctttcttta 240

ttaaggcatg atgtcacctg tacagtaact gccctgtgtg tacttcaggg 290

<210> 143

<211> 240

<212> DNA

<213> Homo Sapiens

<400> 143

ccagctctcc accgccgct gcgcctgcag acgctccgct cgctgccttc tctcctggca 60

ggcgctgcct tttctccccg ttaaaggga cttgggctga aggatcgctt tgagatctga 120

ggaacccgca gcgctttgag ggacctgaag ctgtttttct tcgttttcct ttgggttcag 180

tttgaacggg aggtttttga tccctttttt tcagaatgga ttatttgctc atgattttct 240

<210> 144

<211> 300

<212> DNA

<213> Homo Sapiens

<400> 144

atccagtga agaaccacga tcaaaacaac cacaacacag accggagcag ccataaggac 60

agcatgaact gaccaccctt agaagcactc ctcggtactc ccataatcct ctcggagaaa 120

aaaatcacia ggcaactgtg actccgggaa tctcttctct gatccttctt ccttaattca 180

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ctccacacacc caagaagaaa tgctttccaa aaccgcaagg gtagactggt ttatccaccc 240  
acaacatcta cgaatcgtac ttctttaatt gatctaattt acatattctg cgtgttgat 300

<210> 145  
<211> 300  
<212> DNA  
<213> Homo Sapiens

<400> 145  
ttaatttttc ttaaaatggt aactggcagt aagtcttttt tgatcattcc cttttccata 60  
taggaaacat aattttgaag tggccagatg agtttatcat gtcagtgaat aataattacc 120  
cacaaatgcc accagaactt aacgattctt cacttcttgg ggttttcagt atgaacctaa 180  
ctccccaccc caacatctcc ctccccacatt gtcaccattt caaagggccc acagtgaactt 240  
ttgctgggca ttttcccaga tgtttacaga ctgtgagtac agcagaaaaat cttttactag 300

<210> 146  
<211> 360  
<212> DNA  
<213> Homo Sapiens

<400> 146  
gaggtagagg cagtgtgaagc caggctgttc tcctgggtct tctttgaatt attctttctc 60  
tggtgtctgc tacttcttgg tactgtagtt cttgcatcta gtataaaaac actaaatttg 120  
ttgtcctatt tttttctcac tttccttttag cgtcgagaag tggcaaaaac agttttctgc 180  
ttggttgtaa tttttgctct ttgctgggtc cctcttcatt taagccgtat attgaagaaa 240  
actgtgtata acgagatgga caagaaccga tgtgaattac ttaggtatga tcctgtgtac 300  
tcgctagaaa attggagttt ctcagatttt catatttata atactttttac aaaaccagct 360

<210> 147  
<211> 360  
<212> DNA  
<213> Homo Sapiens

<400> 147  
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gccctcgcgc gcgcgtacag tcatcccgtt ggtctgacga ttgtggagag gcggtggaga 120  
ggcttcatcc atcccccccg gtcgtcgcgg gggattgggg tcccagcgag acctccccgg 180  
gagaagcagt gccaggagg ttttctgaag ccgggggaagc tgtgcagccg aagccgccgc 240  
cgcgccggag cccgggacac cggccaccct ccgcgccacc caccctcgcc ggctccggct 300  
tcctctggcc caggcgccgc gcggacccgg cagctgtctg cgacgccga gctccacggt 360

<210> 148  
<211> 300  
<212> DNA



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<213> Homo Sapiens

<400> 148

taatcattcc ctgatgaatt tttttaagtt taacatttgt tatataagat tttcttacag	60
aggagtatta atcgtaaaaa ttctctcatc cctatagttt tacaagacag caaaagattg	120
gtggctgttc agtttctatt tctgcttgcc attggccatc actgcatttt tttatacact	180
aatgacctgt gaaatgttga gaaagaaaag tggcatgcag attgctttta atgatcacct	240
aaagcaggta agaaaataca aatatttgat aactcgtggt tgaatttata attatgaata	300

<210> 149

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 149

ccgcctcttc gtcttcttca actg	24
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<210> 150

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 150

gatagcagggt gaactcgaag ccca	24
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<210> 151

<211> 300

<212> DNA

<213> Homo Sapiens

<400> 151

ttcctggcca acgtggtgaa ggccttccac cgcgagctgg tgcccgaacc cctcttcgtc	60
ttcttcaact ggctgggcta cgccaactcg gccttcaacc ccatcatcta ctgccgcagc	120
cccgaacttc gcaaggcctt ccagggaactg ctctgctgcg cgcgagggc tgcccgccgg	180
cgccacgcga cccacggaga ccggccgcgc gcctcgggct gtctggcccg gcccggaacc	240
ccgccatcgc ccggggccgc ctcggacgac gacgacgacg atgtcgtcgg ggccacgccg	300

<210> 152

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

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<400> 152  
catggatcaa ctcaacttga 20

<210> 153  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 153  
tatggatcaa ctcaacttga g 21

<210> 154  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 154  
tcttgtgcct tcagctgtga ggaggattt gaattaa 37

<210> 155  
<211> 600  
<212> DNA  
<213> Homo Sapiens

<400> 155  
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ctgtgagatg cgatgctgtc caccagcccc cgaagggtt ggtgaggtgt gctcattccc 180  
ctattggaga attcacctac aagtcctctt gtgccttcag ctgtgaggag ggatttgaat 240  
tacatggatc aactcaactt gagtgcacat ctcagggaca atggacagaa gaggttcctt 300  
cctgccaagg tagaattgag tgcagacttt tttagggtac aggtcaaata cttcataaag 360  
tttctgaacc tagattgccc caaaggggtt tggctctaatt ttcctacatg ctgaaaacta 420  
agtagcgctt acactttaca ttcattgttg acttttaagc aagttttgga agttttccag 480  
tagatttttc tgaaactctg cctgtgtacc taacatttgc agtggtaaaa tgttcaagcc 540  
tggcagttcc gggaaagatc aacatgagct gcagtgggga gcccggtttt ggcactgtgt 600

<210> 156  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

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<400> 156  
tgtcttcaga gccagtt 17

<210> 157  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 157  
agtcttcaga gccagtt 17

<210> 158  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 158  
agagctaataa aaagccagtc cattaggcag tatctccac 39

<210> 159  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 159  
aatcctggga gatgtatttg 20

<210> 160  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 160  
gatcctggga gatgtatttg 20

<210> 161  
<211> 49  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 161  
agcactttta tggcacaaat gatcactatt ttcttgaccc ctacttact 49

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<210> 162
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer/Probe

<400> 162
ccgttgctcc acca 14

<210> 163
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer/Probe

<400> 163
acgttgctcc acca 14

<210> 164
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer/Probe

<400> 164
actatcttat tttcttacct gaatctctga tcttcactaa gagtctgaat aat 53

<210> 165
<211> 1020
<212> DNA
<213> Homo Sapiens

<400> 165
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gcgaagctga ttgcgctcac cctcttgggg atgggactgg cactcttcag gaaccaccag 120
tcttcttacc aaacacgact taatgctctc cgagaggtac aaccgtaga acttcctaac 180
tgtaatttag ttaaaggaat cgaaactggc tctgaagact tggagatact gcctaattgga 240
ctggctttca ttagctctgg attaaagtat cctggaataa agagcttcaa cccaacagt 300
cctggaaaaa tacttctgat ggacctgaat gaagaagatc caacagtgtt ggaattgggg 360
atcactggaa gtaaatttga tgtatcttca tttaaccctc atgggattag cacattcaca 420
gatgaagata atgccatgta cctcctggtg gtgaaccatc cagatgccaa gtccacagt 480
gagttgttta aatttcaaga agaagaaaaa tcgcttttgc atctaaaaac catcagacat 540
aaacttctgc ctaatttgaa tgatattggt gctgtgggac ctgagcactt ttatggcaca 600

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aatgatcact attttcttga cccctactta caatcctggg agatgtattt gggtttagcg	660
tggtcgtatg ttgtctacta tagtccaagt gaagtctgag tggtggcaga aggatttgat	720
tttgctaatg gaatcaacat ttcacccgat ggcaagtatg tctatatagc tgagttgctg	780
gctcataaga ttcattgtgta tgaaaagcat gctaattgga ctttaactcc attgaagtcc	840
cttgacttta ataccctcgt ggataacata tctgtggatc ctgagacagg agacctttgg	900
gttggatgcc atcccaatgg catgaaaatc ttcttctatg actcagagaa tcctcctgca	960
tcagaggatgc ttcgaatcca gaacattcta acagaagaac ctaaagtgc acaggtttat	1020

<210> 166  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 166	
gcgagaccct cactgggatt	20

<210> 167  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 167	
gcctggagag gagctggatt	20

<210> 168  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 168	
ggttgggatt tggggaagga	20

<210> 169  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 169	
ccagacatga ctccattgta ggaa	24

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<210> 170  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 170  
 gagtcagagg ttggagtcac gt 22  
  
 <210> 171  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 171  
 ccgttgctgc aggtcctcat a 21  
  
 <210> 172  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 172  
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 <210> 173  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 173  
 ggggtgtggca gtcagagatc a 21  
  
 <210> 174  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer/Probe  
  
 <400> 174  
 cccaacttga tcacagcact t 21  
  
 <210> 175  
 <211> 22  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 175  
ctaggcacct atgggcagtc aa 22

<210> 176  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 176  
ctaattggctg tagctggtgc t 21

<210> 177  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 177  
gtaggggaag gtgttggtgt aa 22

<210> 178  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 178  
ccagagcaac gtggtggtca 20

<210> 179  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer/Probe

<400> 179  
ggtagccggt gtcccagga 19

<210> 180  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>

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<223> Description of Artificial Sequence: Primer/Probe

<400> 180  
ggctgtgtac accaccaacc a 21

<210> 181  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 181  
ctcgtaactg gacgtgttgg t 21

<210> 182  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 182  
catgatctgc ggtgtgctct a 21

<210> 183  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 183  
gcagcccag ccacagcatt 20

<210> 184  
<211> 540  
<212> DNA  
<213> Homo Sapiens

<400> 184  
ttagttccta caatggagtc atgtctggga agaatctagg gtccaatatg agccacatgt 60  
caagggccag gtgtgcatca aagacaaagg gtgaagttat gagtcagagg ttggagtcatt 120  
gtctgggtca aaggccaggg gtcaggcttg gccatggttc catcttgatg cacaggagct 180  
gaaggacagg atgacggaac tggtgcccct gagctcggtc ctggagcagt acaaggcaga 240  
cacgcggacc attgtacgct tgcgggagga ggtgaggaat ctctccggca gtctggcggc 300  
cattcaggag gagatgggtg cctacgggta tgaggacctg cagcaacggg tgatggccct 360  
ggaggcccgg ctccacgcct gcgcccagaa gctgggtatg ccttggccct tgaccctgac 420  
ccctgatctc tgactgccac acccaactcc agtatcacct gtttgtgcct agaagctgga 480



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cacagttttg acctctaact tttaaaccctc aacccttgac cttcctacct aaggctacac 540

<210> 185  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 185  
ttttcgctc ccgt 14

<210> 186  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 186  
gtttcgctc ccgt 14

<210> 187  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 187  
gctgccaggt cggaatatt ccagggc 27

<210> 188  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 188  
cgccatggag accaacaccc 20

<210> 189  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 189  
gccggttccc tgctctctgt c 21

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<210> 190  
 <211> 360  
 <212> DNA  
 <213> Homo Sapiens

<400> 190  
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 cctccagtga atcccagaag actctggaga gttctgagca gggggcggca ctctggcctc 120  
 tgattggtcc aaggaaggct ggggggcagg acgggaggcg aaacccttg aatattcccg 180  
 acctggcagc ctcatcgagc tcggtgattg gctcagaagg gaaaaggcgg gtctccgtga 240  
 cgacttataa aacgccaggg gcaagcggtc cggataacgg ctagcctgag gagctgctgc 300  
 gacagtccac tacctttttc gagagtgact cccgttggtcc caaggcttcc cagagcgaac 360

<210> 191  
 <211> 13  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 191  
 gtggcccaga gca 13

<210> 192  
 <211> 14  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 192  
 ttggcccaga gcaa 14

<210> 193  
 <211> 37  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

<400> 193  
 ggcagataac aaaagtatca ggaagggtgcc ctcgatc 37

<210> 194  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe

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<400> 194  
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<210> 195  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 195  
aagctgaaaa gtacgcataa atg 23

<210> 196  
<211> 300  
<212> DNA  
<213> Homo Sapiens

<400> 196  
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acctgtcttg attgctctgg gccacatcga gggcaccttc ctgatacttt tggtatctgc 120  
cactggggac ccggttggtg aaggggggact taagattttc tcgaaggagg ggtcactgtg 180  
agggcctttc ctgcctgcta ggggcttcag tttgggggcc cccactcccg actccgggca 240  
agggaggggt ccccatctcc cccgggcctc tcgggtcttg gggctctccc gggaggcccg 300

<210> 197  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 197  
ctacctaaga gctatctacc gtgc 24

<210> 198  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer/Probe

<400> 198  
ggctgtccat gttgtggctg c 21

<210> 199  
<211> 19  
<212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Primer/Probe  
 <400> 199  
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<210> 200  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe  
 <400> 200  
 tttagtcttg aagtgaggg 19

<210> 201  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe  
 <400> 201  
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<210> 202  
 <211> 240  
 <212> DNA  
 <213> Homo Sapiens

<400> 202  
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 cttccactat ggcttcaact ccaactacct gaagaaagtc atctcctact ggcggaatga 120  
 atttgactgg aagaagcagg tggagattct caacagatac cctcacttca agactaagat 180  
 tgaaggtatg ttgcaaaac gccagccaga gagggatata tgtcatgaga acagccttct 240

<210> 203  
 <211> 15  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer/Probe  
 <400> 203  
 tattgggtgc cagca 15

<210> 204  
 <211> 14  
 <212> DNA  
 <213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Primer/Probe

<400> 204
cattgggtgc cagc
14

<210> 205
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer/Probe

<400> 205
tcgtggtccg gcgcatggct tca
23

<210> 206
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer/Probe

<400> 206
caaagggacg aggtgt
16

<210> 207
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer/Probe

<400> 207
gaaagggacg aggtgt
16

<210> 208
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer/Probe

<400> 208
gccggaccac gacgtcacgc agt
23

<210> 209
<211> 360
<212> DNA
<213> Homo Sapiens

<400> 209
gcgcttacct gccagactgc gcgccatggg gcaacccggg aacggcagcg ccttcttgct
60

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ggcacccaat ggaagccatg cgccggacca cgacgtcacg cagcaaagg acgagggtgtg	120
ggtggtgggc atgggcatcg tcatgtctct catcgtcctg gccatcgtgt ttggcaatgt	180
gctggtcatc acagccattg ccaagttcga gcgtctgcag acggtcacca actacttcat	240
cacttcactg gcctgtgctg atctgggtcat gggcctagca gtggtgccct ttggggccgc	300
ccatattctt atgaaaatgt ggacttttgg caacttctgg tgcgagtttt ggacttccat	360